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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTORNEY'S DOCKET NUMBER 20030213-US

U.S. APPLICATION NO. (If known, see

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. PCT/US2004/032276 INTERNATIONAL FILING DATE 01.10.2004 (01 OCT 2004) 04.12.2003 (04 DEC 2003) TITLE OF INVENTION GAN-BASED PERMEABLE BASE TRANSISTOR AND METHOD OF FABRICATION APPLICANT(S) FOR DO/EO/US Liberty L. Gunter; Kanin Chu; Charles R. Eddy, Jr.; Theodore D. Moustakas; Enrico Bellotti Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 10. Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 12. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. 5 pages A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. 17. l A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). Copy of PCT application no. PCT/US2004/032276 as filed - 86 pages, Form PCT/IB/301 Other items or information: Notification of Receipt of Record Copy - 3 pages

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 2

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PTO-1390 (Rev. 02-2005)
Approved for use through 3/31/2007. OMB 0651-0021
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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.					ATTORNEY'S DOCKET NUMBER	
10/532456 PCT/US2004/032276					20030213-US	
The following fees have been submitted					CALCULATIONS	PTO USE ONLY
21. Basic national fee\$300					^{\$} 300	
22. Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)					\$ 200	
23. Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority					s 100	
TOTAL OF 21, 22 and 23 =					\$ 600	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					-	
Total Sheets	Extra Shee		ch additional 50 or fraction I up to a whole number)	RATE		
- 100 =		0 =		x \$250	\$ 0	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).					\$ O	
CLAIMS	NU	JMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims		21 - 20 =	1	× \$50	\$ 50	
Independent clair	ms	4 -3=	1	x \$200	\$ 200	
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360					\$ 0	
TOTAL OF ABOVE CALCULATIONS =					\$ 850	
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.					0	
SUBTOTAL =					\$ 850	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$ O	
TOTAL NATIONAL FEE =					\$ 850	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property					\$ O	
TOTAL FEES ENCLOSED =					\$ 850	
					Amount to be refunded:	\$
				- 	Amount to be charged:	\$
a. A check in the amount of \$ to cover the above fees is enclosed.						
b. Please charge my Deposit Account No. 190130 in the amount of \$ 850.00 to cover the above fees. A duplicate copy of this sheet is enclosed.						
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 190130. A duplicate copy of this sheet is enclosed.						
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.						
SEND ALL CORRESPONDENCE TO:					at len	_
Customer No. 42716 SIGNATURE					1	
Maine & Asmus PO Box 3445 Scott J. As					m/us	
Nashua, NH 03061-3445					V	
United States of America 42,269					ON NUMBER	
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JC13 Rec'd PCT/PTO 22 APR 2009

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: GUNTER, Liberty L. et al Group Art Unit:

Serial No.

Examiner:

Filed:

Herein

Atty. Dkt. No: 20030213-US

For: GAN-BASED PERMEABLE BASE TRANSISTOR AND METHOD OF

FABRICATION

To:

Mail Stop PCT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Fm:

42716

CERTIFICATE OF MAILING 37 CFR 1.10: I certify that this correspondence is being deposited on the below date with the U.S. Postal Service with sufficient postage as EXPRESS MAIL POST OFFICE TO ADDRESSEE addressed to: Mail Stop PCT, Commissioner for Patents, PO Box 1450 Alexandria, VA 22313-1450.

Date: 04 22 2005

Debra A. Stengel or [] Andrew P. Cernota, Reg. No. 52,711

Dear Honorable Commissioner:

TRANSMITTAL COVER SHEET

Submitted herewith, pursuant to 35 U.S.C. 371, is a US National Stage Patent Application of International Application No. PCT/US2004/032276 consisting of:

2 pages Transmittal Letter To The United States Designated/Elected Office Concerning a Filing Under 35 U.S.C. 371,

5 pages Application Data Sheet,

86 pages copy of PCT application as filed,

3 pages Form PCT/IB/301 Notification of Receipt of Record Copy.

EXPRESS MAIL CERTIFICATE EL 962 753 084 US

DEPOSIT ACCOUNT **190130** AUTHORIZATION – The Office is hereby authorized to charge the required fee, and any deficiency or credit any overpayment in the fees to the above deposit account, owned by BAE SYSTEMS Information and Electronic Systems Integration Inc. an authorized signator for which is Kevin M. Perkins, V.P. & Company Counsel, and for whom the undersigned are authorized agents.

Respectfully submitted,

Cus. No. 42716 Maine & Asmus PO Box 3445

Nashua, NH 03061-3445

Tel. No. (603) 886-6100, Fax. No. (603) 886-4796

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Scott J. Asmus, Reg. No. 42,269

Andrew P. Cernota, Reg. No. 52,711

Attorneys/Agents for Applicant

1532456

JC13 Rec'd PCT/PTO 22 APR 2005

PCT INTERNATIONAL APPLICATION TRANSMITTAL LETTER TRANSMITTAL DATE: 01 OCTOBER 2004 REGARDING THE APPLICATION OF: FSUM: **BAE SYSTEMS INFORMATION** AND ELECTRONIC SYSTEMS INTEGRATION INC. INTERNATIONAL APPLICATION NO. INTERN' APPLICATION FILING DATE: HEREIN ATTORNEY DOCKET NO: 20030213-PCT ENTITLED: GAN-BASED PERMEABLE BASE TRANSISTOR AND METHOD OF FABRICATION EXPRESS MAIL CERT: EL 962 753 861 US DATE: 01 October 2004 I certify that this application is being deposited with the U.S. Postal Service EXPRESS MAIL POST OFFICE TO ADDRESSEE under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450. Debra A. Stengel isbra C. Stance 1 Scott J. Asmus, Reg. No. 42,269 [_] Neil F. Maloney; Reg. No. 42,833 To the United States Receiving Office (RO/US): Accompanying this transmittal letter is the above-identified application comprising 11 pages PCT Easy Request, 1 page PCT Easy Fee Calc Sheet, 1 page Validation Log, 1 floppy disk of PCT Easy application forms, 1 page executed Power of Attorney-Applicant, 5 pages executed General Powers of Attorney-Applicants/Inventors, 22 pages of Specification and Claims, 43 sheets of Drawings. The following requests are made of the RO/US: 1. [X] PREPARATION AND TRANSMITTAL OF CERTIFIED COPY OF PRIORITY DOCUMENTS- Please prepare and transmit to the International Bureau a certified copy of the United States origin priority documents identified in Box VI of the Request form (37. CFR 1.451). 2. [X] DISCLOSURE INFORMATION -- In order to assist in screening the accompanying International application for purposes of determining whether a license for foreign transmittal should and could be granted, the following information is supplied: A. [] There is no prior filed application relating to this invention. B. [X] There is one prior application, US 60/527,238, filed 04 December 2003, which contains subject matter that is 1. [X] substantially identical to that of the accompanying International application. 2. [] less than that of the accompanying International application. The additional subject matter of the International application appears on pages(s) and line(s)

3. [] more than that of the accompanying International application.

transmittal letter.

C. [] Disclosure information cannot be covered by the language of Points 2A or 2B above due to the involvement of several prior applications or for other reasons. A separate sheet on which the disclosure information is explained is attached to this

- 3. [X] REQUEST FOR FOREIGN TRANSMITTAL LICENSE-- According to the provisions of 35 USC 184 and 37 CFR 5.11, a license to transmit the accompanying International application to foreign agencies or international authorities is hereby requested.
- 4. [X] The Office is herby authorized to charge deposit account 190130, the amount of \$2,925.00 to cover above filing fees, and any deficiency or credit any overpayment in the fees to the above deposit account, owned by BAE SYSTEMS Information and Electronic Systems Integration Inc. an authorized signator for which is Kevin M. Perkins, V.P. & Company Counsel, and for whom the undersigned are authorized agents.

Date: 1 Oct. 200

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